ELSEVIER

Journal of Petroleum Science and Engineering 24 (1999) 269–271

JOURNAL OF PETROLEUM SCIENCE & ENGINEERING

Author index

Aminzadeh, F., J. Barhen, C.W. Glover and N.B. Toomarian
Estimation of reservoir parameter using a hybrid neural network 24 (1999) 49
Archer, J.S., see Moss, A.K. 24 (1999) 231

Barhen, J., see Aminzadeh, F. 24 (1999) 49
Basu, S., see Yang, S.-Y. 24 (1999) 63
Bertrand, E., D. Bonn, D. Broseta and J. Meunier
Wetting of hydrocarbon mixtures on water under varying pressure or composition 24 (1999) 221
Blake, T.D., see de Ruijter, M. 24 (1999) 189
Blokhus, A.M., see Standal, S. 24 (1999) 131
Bonn, D., see Bertrand, E. 24 (1999) 221
Branlard, P., see Fleury, M. 24 (1999) 123
Broseta, D., see Bertrand, E. 24 (1999) 221
Buckley, J.S., see Liu, L. 24 (1999) 75
Buckley, J.S., see Spildo, K. 24 (1999) 145
Burger, J., see Lee, S. 24 (1999) 1
Burrafato, G., see Chiappa, L. 24 (1999) 113

Carr, M.B., see Prince, C.M. 24 (1999) 169
Chiappa, L., A. Mennella, T.P. Lockhart and G. Burrafato
Polymer adsorption at the brine/rock interface: the role of electrostatic interactions and wettability 24 (1999) 113
Clarke, A., see de Ruijter, M. 24 (1999) 189
Crampin, S.
Implications of rock criticality for reservoir characterization 24 (1999) 29

De Coninck, J., see de Ruijter, M. 24 (1999) 189
de Ruijter, M., T.D. Blake, A. Clarke and J. De Coninck
Droplet spreading: a tool to characterize surfaces at the microscopic scale 24 (1999) 189

Ehrlich, R., see Prince, C.M. 24 (1999) 169
Eidesmo, T., see Stalheim, S.O. 24 (1999) 243
Eilertsen, T., see Graue, A. 24 (1999) 85

Fleury, M., P. Branlard, R. Lenormand and C. Zarcone
Intermediate wettability by chemical treatment 24 (1999) 123

Glover, C.W., see Aminzadeh, F. 24 (1999) 49
Graue, A., B.G. Viksund, T. Eilertsen and R. Moe
Systematic wettability alteration by aging sandstone and carbonate rock in crude oil 24 (1999) 85
Grubert, D., see Langaas, K. 24 (1999) 199

Haavik, J., see Standal, S. 24 (1999) 131
Hazlett, R.D., see Ward, A.D. 24 (1999) 213

Hirasaki, G.J., see Yang, S.-Y. 24 (1999) 63
Ho, R., see Lee, S. 24 (1999) 1
Holt, T., see Tweheyo, M.T. 24 (1999) 179

Jing, X.D., see Man, H.N. 24 (1999) 255
Jing, X.D., see Moss, A.K. 24 (1999) 231

Kalaydjian, F., see Laroche, C. 24 (1999) 155

Langaas, K. and D. Grubert
Lattice Boltzmann simulations of wetting and its application to disproportionate permeability reducing gel 24 (1999) 199
Laroche, C., O. Vizika and F. Kalaydjian
Network modeling as a tool to predict three-phase gas injection in heterogeneous wettability porous media 24 (1999) 155
Lee, S., J. Shaw, R. Ho, J. Burger, S. Singh and B. Troyer
Illuminating the shadows: tomography, attenuation and pore pressure processing in the South Caspian Sea 24 (1999) 1
Lenormand, R., see Fleury, M. 24 (1999) 123
Liu, L. and J.S. Buckley
Alteration of wetting of mica surfaces 24 (1999) 75
Lockhart, T.P., see Chiappa, L. 24 (1999) 113

Mahrer, K.D.
A review and perspective on far-field hydraulic fracture geometry studies 24 (1999) 13
Man, H.N. and X.D. Jing
Network modelling of wettability and pore geometry effects on electrical resistivity and capillary pressure 24 (1999) 255
Mennella, A., see Chiappa, L. 24 (1999) 113
Meunier, J., see Bertrand, E. 24 (1999) 221
Moe, R., see Graue, A. 24 (1999) 85
Morrow, N.R., see Tang, G.-Q. 24 (1999) 99
Moss, A.K., X.D. Jing and J.S. Archer
Laboratory investigation of wettability and hysteresis effects on resistivity index and capillary pressure characteristics 24 (1999) 231

Ottewill, R.H., see Ward, A.D. 24 (1999) 213

Prince, C.M., R. Ehrlich and M.B. Carr
The effect of sandstone microfabric upon relative permeability end points 24 (1999) 169

Rueslåtten, H., see Stalheim, S.O. 24 (1999) 243

Shaw, J., see Lee, S. 24 (1999) 1
Singh, S., see Lee, S. 24 (1999) 1
Skauge, A., see Standal, S. 24 (1999) 131
Spildo, K. and J.S. Buckley
Uniform and mixed wetting in square capillaries 24 (1999) 145
Stalheim, S.O., T. Eidesmo and H. Rueslåtten
Influence of wettability on water saturation modelling 24 (1999) 243
Standal, S., J. Haavik, A.M. Blokhus and A. Skauge
Effect of polar organic components on wettability as studied by adsorption and contact angles 24 (1999) 131

Tang, G.-Q. and N.R. Morrow
Influence of brine composition and fines migration on crude oil/brine/rock interactions and oil recovery 24 (1999) 99
Toomarian, N.B., see Aminzadeh, F. 24 (1999) 49
Torsæter, O., see Tweheyo, M.T. 24 (1999) 179
Troyer, B., see Lee, S. 24 (1999) 1
Tweheyo, M.T., T. Holt and O. Torsæter
An experimental study of the relationship between wettability and oil production characteristics 24 (1999) 179

Vaidya, R., see Yang, S.-Y. 24 (1999) 63
Viksund, B.G., see Graue, A. 24 (1999) 85
Vizika, O., see Laroche, C. 24 (1999) 155

Ward, A.D., R.H. Ottewill and R.D. Hazlett
An investigation into the stability of aqueous films separating hydrocarbon drops from quartz surfaces 24 (1999) 213

Yang, S.-Y., G.J. Hirasaki, S. Basu and R. Vaidya
Mechanisms for contact angle hysteresis and advancing contact angles 24 (1999) 63

Zarcone, C., see Fleury, M. 24 (1999) 123

ELSEVIER

Journal of Petroleum Science and Engineering 24 (1999) 273–276

JOURNAL OF PETROLEUM SCIENCE & ENGINEERING

Subject Index

Adhesion
Hysteresis 24(2) 63–73
Contact angles 24(2) 63–73
Atomic force microscopy 24(2) 63–73
Wettability 24(2) 63–73
Mixed-wet 24(2) 63–73
Adsorption
Wettability 24(2) 75–83
Crude oil 24(2) 75–83
Mica 24(2) 75–83
Contact angles 24(2) 131–144
pH effects 24(2) 131–144
Salinity effects 24(2) 131–144
Wettability 24(2) 131–144
Polar components 24(2) 131–144
Wettability 24(2) 145–154
Imbibition 24(2) 145–154
Capillarity 24(2) 145–154
Crude oil 24(2) 145–154
Amott-test
Wettability 24(2) 179–188
Sandstone 24(2) 179–188
Wettability alteration 24(2) 179–188
Oil soluble additives 24(2) 179–188
Oil recovery efficiency 24(2) 179–188
Anisotropy
Criticality 24(1) 29–48
Monitoring 24(1) 29–48
Poro-elasticity 24(1) 29–48
UNIWELL 24(1) 29–48
Aqueous film stability
Hydrocarbon 24(2) 213–220
Quartz surface 24(2) 213–220
Thin films 24(2) 213–220
Wettability 24(2) 213–220
Asphaltene 24(2) 213–220
Interference microscopy 24(2) 213–220
Artificial neural network
Oil field 24(1) 49–56
Reservoir parameter 24(1) 49–56
Asphaltene
Aqueous film stability 24(2) 213–220
Hydrocarbon 24(2) 213–220
Quartz surface 24(2) 213–220
Thin films 24(2) 213–220
Wettability 24(2) 213–220
Interference microscopy 24(2) 213–220
Asphaltenes
Wettability 24(2) 113–122
Electrostatic interactions 24(2) 113–122
Polymer adsorption 24(2) 113–122
Water shutoff treatments 24(2) 113–122
Relative permeability modifiers 24(2) 113–122
Atomic force microscopy
Hysteresis 24(2) 63–73
Contact angles 24(2) 63–73
Wettability 24(2) 63–73
Mixed-wet 24(2) 63–73
Adhesion 24(2) 63–73
Brine composition
Fine solids 24(2) 99–111
Oil recovery 24(2) 99–111
Waterflooding 24(2) 99–111
Capillarity
Wettability 24(2) 145–154
Imbibition 24(2) 145–154
Crude oil 24(2) 145–154
Adsorption 24(2) 145–154
Capillary pressure
Wettability 24(2) 123–130
Siliconate 24(2) 123–130
Relative permeability 24(2) 123–130
Wettability 24(2) 231–242
Hysteresis 24(2) 231–242
Resistivity index 24(2) 231–242
Network model 24(2) 255–267
Electrical resistivity 24(2) 255–267
Pore geometry 24(2) 255–267
Wettability 24(2) 255–267
Carbonate rock
Wettability alteration 24(2) 85–97
Sandstone 24(2) 85–97
Clastics
Porous medium 24(2) 169–178
Heterogeneous fabric 24(2) 169–178
Relative permeability 24(2) 169–178
Image analysis 24(2) 169–178
Contact angles
Hysteresis 24(2) 63–73
Atomic force microscopy 24(2) 63–73
Wettability 24(2) 63–73
Mixed-wet 24(2) 63–73
Adhesion 24(2) 63–73
Adsorption 24(2) 131–144
pH effects 24(2) 131–144
Salinity effects 24(2) 131–144
Wettability 24(2) 131–144
Polar components 24(2) 131–144
Criticality
Anisotropy 24(1) 29–48
Monitoring 24(1) 29–48
Poro-elasticity 24(1) 29–48
UNIWELL 24(1) 29–48
Crude oil
Wettability 24(2) 75–83
Mica 24(2) 75–83
Adsorption 24(2) 75–83
Wettability 24(2) 145–154
Imbibition 24(2) 145–154
Capillarity 24(2) 145–154
Adsorption 24(2) 145–154
Dynamics of spreading
Wetting 24(2) 189–198
Surface characterization 24(2) 189–198
Friction 24(2) 189–198
Molecular kinetic theory 24(2) 189–198
Electrical resistivity
Network model 24(2) 255–267
Capillary pressure 24(2) 255–267
Pore geometry 24(2) 255–267
Wettability 24(2) 255–267
Electrostatic interactions
Wettability 24(2) 113–122
Asphaltenes 24(2) 113–122
Polymer adsorption 24(2) 113–122
Water shutoff treatments 24(2) 113–122
Relative permeability modifiers 24(2) 113–122
Far-field fracture geometry
Hydraulic fracture 24(1) 13–28
Multiple-fracture geometry 24(1) 13–28

Hydraulic fracture treatments 24(1) 13–28
Film flow
Wettability heterogeneity 24(2) 155–168
Gas injection 24(2) 155–168
Network modelling 24(2) 155–168
Three-phase flow 24(2) 155–168
Fine solids
Brine composition 24(2) 99–111
Oil recovery 24(2) 99–111
Waterflooding 24(2) 99–111
Friction
Wetting 24(2) 189–198
Dynamics of spreading 24(2) 189–198
Surface characterization 24(2) 189–198
Molecular kinetic theory 24(2) 189–198
Gas injection
Wettability heterogeneity 24(2) 155–168
Network modelling 24(2) 155–168
Three-phase flow 24(2) 155–168
Film flow 24(2) 155–168
Gels
Multiphase flow 24(2) 199–211
Wettability 24(2) 199–211
Permeability reduction 24(2) 199–211
Hamaker constant
Wetting 24(2) 221–230
Hydrocarbon mixtures 24(2) 221–230
Pressure 24(2) 221–230
Water 24(2) 221–230
Van der Waals forces 24(2) 221–230
pH effects
Contact angles 24(2) 131–144
Adsorption 24(2) 131–144
Salinity effects 24(2) 131–144
Wettability 24(2) 131–144
Polar components 24(2) 131–144
Heterogeneous fabric
Porous medium 24(2) 169–178
Clastics 24(2) 169–178
Relative permeability 24(2) 169–178
Image analysis 24(2) 169–178
Hydraulic fracture
Far-field fracture geometry 24(1) 13–28
Multiple-fracture geometry 24(1) 13–28
Hydraulic fracture treatments 24(1) 13–28
Hydraulic fracture treatments
Hydraulic fracture 24(1) 13–28
Far-field fracture geometry 24(1) 13–28
Multiple-fracture geometry 24(1) 13–28
Hydrocarbon
Aqueous film stability 24(2) 213–220
Quartz surface 24(2) 213–220
Thin films 24(2) 213–220
Wettability 24(2) 213–220
Asphaltene 24(2) 213–220
Interference microscopy 24(2) 213–220
Hydrocarbon mixtures
Wetting 24(2) 221–230
Pressure 24(2) 221–230
Hamaker constant 24(2) 221–230
Water 24(2) 221–230
Van der Waals forces 24(2) 221–230
Hysteresis
Contact angles 24(2) 63–73
Atomic force microscopy 24(2) 63–73
Wettability 24(2) 63–73
Mixed-wet 24(2) 63–73
Adhesion 24(2) 63–73
Wettability 24(2) 231–242
Resistivity index 24(2) 231–242
Capillary pressure 24(2) 231–242
Image analysis
Porous medium 24(2) 169–178
Clastics 24(2) 169–178
Heterogeneous fabric 24(2) 169–178
Relative permeability 24(2) 169–178
Imbibition
Wettability 24(2) 145–154
Capillarity 24(2) 145–154
Crude oil 24(2) 145–154
Adsorption 24(2) 145–154
Interference microscopy
Aqueous film stability 24(2) 213–220
Hydrocarbon 24(2) 213–220
Quartz surface 24(2) 213–220
Thin films 24(2) 213–220
Wettability 24(2) 213–220
Asphaltene 24(2) 213–220
Mica
Wettability 24(2) 75–83
Crude oil 24(2) 75–83
Adsorption 24(2) 75–83
Mixed-wet
Hysteresis 24(2) 63–73
Contact angles 24(2) 63–73
Atomic force microscopy 24(2) 63–73
Wettability 24(2) 63–73
Adhesion 24(2) 63–73
Molecular kinetic theory
Wetting 24(2) 189–198
Dynamics of spreading 24(2) 189–198
Surface characterization 24(2) 189–198
Friction 24(2) 189–198
Monitoring
Anisotropy 24(1) 29–48
Criticality 24(1) 29–48
Poro-elasticity 24(1) 29–48
UNIWELL 24(1) 29–48
Multiphase flow
Wettability 24(2) 199–211
Gels 24(2) 199–211
Permeability reduction 24(2) 199–211
Multiple-fracture geometry
Hydraulic fracture 24(1) 13–28
Far-field fracture geometry 24(1) 13–28
Hydraulic fracture treatments 24(1) 13–28
Network model
Electrical resistivity 24(2) 255–267
Capillary pressure 24(2) 255–267
Pore geometry 24(2) 255–267
Wettability 24(2) 255–267
Network modelling
Wettability heterogeneity 24(2) 155–168
Gas injection 24(2) 155–168
Three-phase flow 24(2) 155–168
Film flow 24(2) 155–168
Oil field
Artificial neural network 24(1) 49–56
Reservoir parameter 24(1) 49–56
Oil recovery
Brine composition 24(2) 99–111
Fine solids 24(2) 99–111
Waterflooding 24(2) 99–111
Oil recovery efficiency
Wettability 24(2) 179–188
Amott-test 24(2) 179–188
Sandstone 24(2) 179–188
Wettability alteration 24(2) 179–188
Oil soluble additives 24(2) 179–188
Oil soluble additives
Wettability 24(2) 179–188
Amott-test 24(2) 179–188
Sandstone 24(2) 179–188
Wettability alteration 24(2) 179–188
Oil recovery efficiency 24(2) 179–188
Permeability reduction
Multiphase flow 24(2) 179–188
Wettability 24(2) 179–188
Gels 24(2) 179–188
Polar components
Contact angles 24(2) 131–144
Adsorption 24(2) 131–144
pH effects 24(2) 131–144
Salinity effects 24(2) 131–144
Wettability 24(2) 131–144
Polymer adsorption
Wettability 24(2) 113–122
Asphaltenes 24(2) 113–122
Electrostatic interactions 24(2) 113–122

Water shutoff treatments 24(2) 113–122
Relative permeability modifiers 24(2) 113–122

Pore geometry
Network model 24(2) 255–267
Electrical resistivity 24(2) 255–267
Capillary pressure 24(2) 255–267
Wettability 24(2) 255–267

Poro-elasticity
Anisotropy 24(1) 29–48
Criticality 24(1) 29–48
Monitoring 24(1) 29–48
UNIWELL 24(1) 29–48

Porous medium
Clastics 24(2) 169–178
Heterogeneous fabric 24(2) 169–178
Relative permeability 24(2) 169–178
Image analysis 24(2) 169–178

Pressure
Wetting 24(2) 221–230
Hydrocarbon mixtures 24(2) 221–230
Hamaker constant 24(2) 221–230
Water 24(2) 221–230
Van der Waals forces 24(2) 221–230

Quartz surface
Aqueous film stability 24(2) 213–220
Hydrocarbon 24(2) 213–220
Thin films 24(2) 213–220
Wettability 24(2) 213–220
Asphaltene 24(2) 213–220
Interference microscopy 24(2) 213–220

Relative permeability
Capillary pressure 24(2) 123–130
Wettability 24(2) 123–130
Siliconate 24(2) 123–130
Porous medium; 24(2) 169–178
Clastics; 24(2) 169–178
Heterogeneous fabric 24(2) 169–178
Image analysis 24(2) 169–178

Relative permeability modifiers
Wettability 24(2) 113–122
Asphaltenes 24(2) 113–122
Electrostatic interactions 24(2) 113–122
Polymer adsorption 24(2) 113–122
Water shutoff treatments 24(2) 113–122

Reservoir parameter
Oil field 24(1) 49–56
Artificial neural network 24(1) 49–56

Resistivity index
Wettability 24(2) 231–242
Hysteresis 24(2) 231–242
Capillary pressure 24(2) 231–242

Salinity effects
Contact angles 24(2) 131–144
Adsorption 24(2) 131–144
pH effects 24(2) 131–144
Wettability 24(2) 131–144
Polar components 24(2) 131–144

Sandstone
Wettability alteration 24(2) 85–97
Carbonate rock 24(2) 85–97
Wettability 24(2) 179–188
Amott-test 24(2) 179–188
Wettability alteration 24(2) 179–188
Oil soluble additives 24(2) 179–188
Oil recovery efficiency 24(2) 179–188

Saturation
Wettability 24(2) 243–253
Water 24(2) 243–253

Siliconate
Capillary pressure 24(2) 123–130
Wettability 24(2) 123–130
Relative permeability 24(2) 123–130

South Caspian Sea
Tomography 24(1) 1–12
Visco-acoustic modeling 24(1) 1–12

Surface characterization
Wetting 24(2) 189–198
Dynamics of spreading 24(2) 189–198
Friction 24(2) 189–198
Molecular kinetic theory 24(2) 189–198

Thin films
Aqueous film stability 24(2) 213–220
Hydrocarbon 24(2) 213–220
Quartz surface 24(2) 213–220
Wettability 24(2) 213–220
Asphaltene 24(2) 213–220
Interference microscopy 24(2) 213–220

Three-phase flow
Wettability heterogeneity 24(2) 155–168
Gas injection 24(2) 155–168
Network modelling 24(2) 155–168
Film flow 24(2) 155–168

Tomography
South Caspian Sea 24(1) 1–12
Visco-acoustic modeling 24(1) 1–12

UNIWELL
Anisotropy 24(1) 29–48
Criticality 24(1) 29–48
Monitoring 24(1) 29–48
Poro-elasticity 24(1) 29–48

Van der Waals forces
Wetting 24(2) 221–230
Hydrocarbon mixtures 24(2) 221–230
Pressure 24(2) 221–230
Hamaker constant 24(2) 221–230
Water 24(2) 221–230

Visco-acoustic modeling
Tomography 24(1) 1–12
South Caspian Sea 24(1) 1–12

Water
Wetting 24(2) 221–230
Hydrocarbon mixtures 24(2) 221–230
Pressure 24(2) 221–230
Hamaker constant 24(2) 221–230
Van der Waals forces 24(2) 221–230
Wettability 24(2) 243–253
Saturation 24(2) 243–253

Waterflooding
Brine composition 24(2) 99–111
Fine solids 24(2) 99–111
Oil recovery 24(2) 99–111

Water shutoff treatments
Wettability 24(2) 113–122
Asphaltenes 24(2) 113–122
Electrostatic interactions 24(2) 113–122
Polymer adsorption 24(2) 113–122
Relative permeability modifiers 24(2) 113–122

Wettability
Hysteresis 24(2) 63–73
Contact angles 24(2) 63–73
Atomic force microscopy 24(2) 63–73
Mixed-wet 24(2) 63–73
Adhesion 24(2) 63–73
Crude oil 24(2) 75–83
Mica 24(2) 75–83
Adsorption 24(2) 75–83
Asphaltenes 24(2) 113–122
Electrostatic interactions 24(2) 113–122
Polymer adsorption 24(2) 113–122
Water shutoff treatments 24(2) 113–122
Relative permeability modifiers 24(2) 113–122
Capillary pressure 24(2) 123–130
Siliconate 24(2) 123–130
Relative permeability 24(2) 123–130
Contact angles 24(2) 131–144
Adsorption 24(2) 131–144
pH effects 24(2) 131–144
Salinity effects 24(2) 131–144
Polar components 24(2) 131–144
Imbibition 24(2) 145–154
Capillarity 24(2) 145–154
Crude oil 24(2) 145–154
Adsorption 24(2) 145–154
Amott-test 24(2) 179–188
Sandstone 24(2) 179–188
Wettability alteration 24(2) 179–188
Oil soluble additives 24(2) 179–188
Oil recovery efficiency 24(2) 179–188
Multiphase flow 24(2) 199–211
Gels 24(2) 199–211
Permeability reduction 24(2) 199–211
Aqueous film stability 24(2) 213–220

Hydrocarbon 24(2) 213–220
Quartz surface 24(2) 213–220
Thin films 24(2) 213–220
Asphaltene 24(2) 213–220
Interference microscopy 24(2) 213–220
Hysteresis 24(2) 231–242
Resistivity index 24(2) 231–242
Capillary pressure 24(2) 231–242
Water 24(2) 243–253
Saturation 24(2) 243–253
Network model 24(2) 255–267
Electrical resistivity 24(2) 255–267
Capillary pressure 24(2) 255–267
Pore geometry 24(2) 255–267

Wettability alteration
Sandstone 24(2) 85–97
Carbonate rock 24(2) 85–97
Wettability 24(2) 179–18826Amott-test 24(2) 179–188
Sandstone 24(2) 179–188
Oil soluble additives 24(2) 179–188
Oil recovery efficiency 24(2) 179–188

Wettability heterogeneity
Gas injection 24(2) 155–168
Network modelling 24(2) 155–168
Three-phase flow 24(2) 155–168
Film flow 24(2) 155–168

Wetting
Dynamics of spreading 24(2) 189–198
Surface characterization 24(2) 189–198
Friction 24(2) 189–198
Molecular kinetic theory 24(2) 189–198
Hydrocarbon mixtures 24(2) 221–230
Pressure 24(2) 221–230
Hamaker constant 24(2) 221–230
Water 24(2) 221–230
Van der Waals forces 24(2) 221–230